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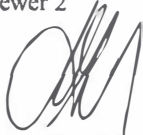
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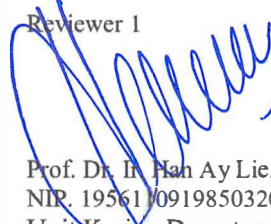
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 Unit Kerja : Departemen Teknik Sipil FT UNDIP

Reviewer 1



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 NIP. 195611091985032002
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Tulisan ini membahas tentang pembaharuan peta percepatan gerakan tanah di batuan di wilayah Kota Semarang akibat 26 jalur sesar aktif baru dan 2 jalur subduksi. Hasilnya kemudian dibandingkan dengan hasil penelitian tahun 2012 akibat 5 jalur sesar aktif dan 2 jalur subduksi. Peta percepatan dihitung pada 288 titik pengeboran di Kota Semarang.

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Semarang, 15 Juli 2019

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- Kelengkapan unsur dan kualitas terbitan:**
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Semarang,
 Reviewer 2



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International Journal of GEOMATE
Volume 16, Issue 57, 2019, Pages 176-182

Seismic microzonation of Semarang, Indonesia, based on probabilistic and deterministic combination analysis (Article) [\(Open Access\)](#)

Partono, W.^a, Irsyam, M.^b, Sengara, I.W.^b, Asrurifak, M.^c

^aFaculty of Engineering, Diponegoro University, Indonesia

^bFaculty of Civil and Environmental Engineering, Bandung Institute of Technology, Indonesia

^cResearch Center for Disaster Mitigation, Bandung Institute of Technology, Indonesia

Abstract

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One of the most important pieces of information obtained from the new Indonesian seismic hazard maps completed in 2017 was the identification of a fault that crosses the city of Semarang. This fault can be categorized as a new dangerous seismic source and should be taken into account in future seismic mitigation planning of this city. This paper describes the seismic microzonation of Semarang carried out via a combination of probabilistic and deterministic hazard analysis. The purpose of this research was to develop a risk map for Semarang based on one percent building collapse in 50 years. The analysis was performed using the same method employed in developing risk targeted Maximum Considered Earthquake (MCE_R) maps in 2012, with an improved beta (logarithmic standard deviation) value of 0.65 and adjusted direction factors of 1.1 and 1.3 for short- and long-period spectral acceleration, respectively. Whereas the 2012 maximum MCE_R spectral acceleration was distributed in the north-east of the study area due to the presence of Lasem fault, the 2018 maximum is located in the north-western part of the city as a result of the newly developed Semarang fault. © Int. J. of GEOMATE.

Author keywords

[Deterministic](#) [Fault](#) [MCER](#) [Probabilistic](#) [Seismic microzonation](#)

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